

1-8. (CANCELED) ❖

9. (CURRENTLY AMENDED) A hydrodynamic torque converter comprising[[]]: ❖

a clutch (2) arranged inside a converter housing (1), said clutch connecting a pump impeller wheel (3) to a drive;

a drive engine; and

a turbine rotor (4) forms a drive output, and a pressure sensor (12) connected to an inner space of the converter determines the pressure inside the converter housing (1); and ❖

wherein the converter housing (1) has a pressure line (16) through which the converter's internal pressure is transmitted via a rotary connection (15) to a positionally fixed component (13) in which the pressure sensor is arranged. ❖

10. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 9, wherein the clutch (2) is actuated by an actuation device with a piston (9), with a pressure inside the inner space of the converter housing (1) acting on one side of the piston (9) and an actuation pressure acting on another side.

11. (CANCELED)

12. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 10, wherein the piston (9) has at least one aperture (17) through which the converter's internal pressure is transmitted to a pressure line (16).

13. (CANCELED)

14. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[13]] 9, wherein the positionally fixed component (13) is connected to a stator of the torque converter. ❖

15. (CURRENTLY AMENDED) The Hydrodynamic torque converter according to claim [[13]] 9, wherein a pressure feed line (10) to an actuation device for the clutch (2) and a coolant liquid feed line (6) are arranged in the positionally fixed component (13). ❖

16. (CURRENTLY AMENDED) A hydrodynamic torque converter, comprising: ❖
a clutch (2) arranged inside a rotatable converter housing (1), said clutch having a piston for connecting a pump impeller wheel (3) to a drive;

a turbine rotor (4) forms a drive output, [[and]] ❖

wherein a pressure within the converter housing (1) is fed via a tapping point in the converter housing adjacent the piston to a hydraulic control unit, which ❖

controls an actuation pressure of the clutch (2) as a function of the pressure within a converter housing (1); and

wherein the tapping point in the rotatable converter housing (1) communicates with a pressure line (16) through which the converter's internal pressure is transmitted from the rotatable converter housing (1) via a rotary connection (15) to a relatively fixed component (13) in which the pressure sensor is arranged.

17. (CANCELED)

18. (CURRENTLY AMENDED) A hydrodynamic torque converter for a drive train of a vehicle comprising:

a converter housing connected to a drive engine, the converter housing containing;

a pump impeller for connecting with the converter housing;

a turbine rotor (4) having a turbine shaft forming an output drive,

a clutch (2) arranged inside the converter housing (1) for connecting the pump impeller wheel (3) to the converter housing according to an applied clutch pressure; [[and]]

a pressure sensor (12) directly connected with an inner space of the converter housing via a fluid passage to determine a pressure inside the converter housing (1) and regulate the applied clutch pressure as a function of the pressure inside the converter housing; and

wherein the pressure sensor (12) is arranged in a positionally fixed component (13) radially aligned between the turbine shaft and the converter housing.

19. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 18, wherein the clutch (2) is actuated by an actuation device with a piston (9), with the pressure inside the inner space of the converter housing (1) acting on one side of the piston (9) and an actuation pressure acting on another side.

20. (CANCELED)

21. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 19, wherein the piston (9) has at least one aperture (17) through which the pressure inside an inner space of the converter housing (1) is transmitted to a pressure line (16).

22. (CANCELED)

23. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[22]] 18, wherein the positionally fixed component (13) is connected to a stator of the torque converter. ◆

24. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[22]] 18, wherein a pressure feed line (10) to an actuation device for the clutch (2) and a coolant liquid feed line (6) are arranged in the positionally fixed component (13). ◆

25. (NEW) A hydrodynamic torque converter comprising:
 a clutch (2) arranged inside a converter housing (1), said clutch having a piston for connecting a pump impeller wheel (3) to a drive input from a drive engine;
 a turbine rotor (4) forms a drive output in a turbine shaft of the torque converter;

 a pressure sensor arranged in a positionally fixed component (12) communicates via a rotary pressure sensing line with an inner space of the converter to determine the pressure inside the converter housing (1); and

 wherein the rotary pressure sensing line communicates with the inner space of the converter housing on a first side of the piston and an aperture is provided in the piston of the clutch to provide communication of the rotary pressure sensing line with a fluid pressure on an opposing second side of the piston.

26. (NEW) The hydrodynamic torque converter as set forth in claim 25 wherein the rotary pressure sensing line is formed in the converter housing (1).

27. (NEW) The hydrodynamic torque converter as set forth in claim 26 wherein a stationary pressure sensing line formed in the positionally fixed component (12) connects to the rotary pressure sensing line in the converter housing via a rotary connection.

28. (NEW) The hydrodynamic torque converter as set forth in claim 27 wherein the rotary pressure sensing line is not formed in the turbine shaft (5).

29. (NEW) A hydrodynamic torque converter comprising:
 a clutch (2) arranged inside a converter housing (1), said clutch having a piston for connecting a pump impeller wheel (3) to a drive input from a drive engine;
 a turbine rotor (4) forms a drive output in a turbine shaft of the torque converter;

a pressure sensor arranged in a positionally fixed component (12) communicates via a rotary pressure sensing line with an inner space of the converter to determine the pressure inside the converter housing (1); and

wherein the rotary pressure sensing line extends through the converter housing and communicates with the inner space of the converter housing on one side of the piston and a stationary pressure sensing line formed in the positionally fixed component (12) connects to the rotary pressure sensing line formed in the converter housing via a rotary connection.

30. (NEW) The hydrodynamic torque converter as set forth in claim 29 wherein the positionally fixed component is radially situated between the turbine shaft (5) and the converter housing (1) and the rotary pressure sensing line is formed solely in the converter housing (1).